

Immunotag™ PI 3-Kinase C2γ Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5683
Product Description	Immunotag™ PI 3-Kinase C2γ Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PI 3-Kinase C2γ
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	Synthesized peptide derived from the N-terminal region of human PI 3-Kinase C2γ.
Specificity	PI 3-Kinase C2γ Polyclonal Antibody detects endogenous levels of PI 3-Kinase C2γ protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PIK3C2G
Accession No.	O75747 O70167
Alternate Names	PIK3C2G; Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit gamma; PI3K-C2-gamma; PtdIns-3-kinase C2 subunit gamma; Phosphoinositide 3-kinase-C2-gamma

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Description	<p>phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 gamma(PIK3C2G) Homo sapiens The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. This gene may play a role in several diseases, including type II diabetes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],</p>
Cell Pathway/ Category	Inositol phosphate metabolism,Phosphatidylinositol signaling system,
Protein Expression	Epithelium,Liver,Mammary gl
Subcellular Localization	intracellular,cytosol,plasma membrane,phosphatidylinositol 3-kinase complex,
Protein Function	<p>catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4-phosphate = ADP + 1-phosphatidyl-1D-myo-inositol 3,4-bisphosphate.,function:In vitro, phosphorylates PtdIns and PtdIns4P but not PtdIns(4,5)P2.,similarity:Belongs to the PI3/PI4-kinase family.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI3K/PI4K domain.,similarity:Contains 1 PX (phox homology) domain.,tissue specificity:Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas.,</p>
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.